

### iii) Determination of AChR content

[00130] AChR content was determined by measuring  $\alpha$ -bungarotoxin ( $\alpha$ -BTX) binding sites. Tested samples were derived from (a) muscle preparations or from (b) cells grown in a tissue culture.

[00131] a) For the muscle preparation, the procedure described by Souroujon et al. (1985) was essentially followed. Briefly, muscle tissue was removed and homogenized in a Sorvall omnimixer for 2 min. at full speed. Two volumes of Tris-HCl buffer, pH 7.5, containing 0.1 M NaCl, 1 mM EDTA, 0.1 mM PMSF and 0.5 mM  $\text{NaN}_3$ , were used for homogenization. Homogenates were then centrifuged at  $48,000 \times g$  for 1 h, washed once and recentrifuged as above. The homogenates were stirred overnight at  $4^\circ\text{C}$  in 2 volumes of the above Tris buffer containing Triton X-100 at a final concentration of 1%. The mixture was then centrifuged for 1 h at  $100,000 \times g$  in a Beckman ultracentrifuge and the recovered supernatant was stored at  $-70^\circ\text{C}$ . The AChR in the Triton extracts was determined by measuring the amount of  $^{125}\text{I}$ - $\alpha$ -BTX that coprecipitated with the receptor in ammonium sulfate at 35% saturation. Unbound toxin was removed by filtration through GF/C filters, and radioactivity retained on filters, i.e. toxin bound to receptor, was measured in a  $\gamma$ -counter.